



IEEE Workshop on Omnidirectional Vision (OMNIVIS'00)

June 16 - 16, 2000

Hilton Head, South Carolina

PDF's require Adobe Acrobat 4.05+
[Click Here](#) to download

	Free	Requires Subscription	Purchase
p. vii • Preface	PDF		
p. viii • Program Committee	PDF		
Session: Reconstruction I	Free	Requires Subscription	Purchase
p. 3 • Video Plus <i>Camillo J. Taylor</i>	SUMMARY	PDF	BUY ARTICLE
p. 11 • Multi-Camera Networks: Eyes from Eyes <i>C. Fermüller, Y. Aloimonos, P. Baker, R. Pless, J. Neumann, B. Stuart</i>		PDF	BUY ARTICLE
Session: Surveillance and Navigation I	Free	Requires Subscription	Purchase
p. 21 • Omni-Directional Vision for Robot Navigation <i>Niall Winters, José Gaspar, Gerard Lacey, José Santos-Victor</i>	SUMMARY	PDF	BUY ARTICLE
p. 29 • Panoramic Virtual Stereo Vision of Cooperative Mobile Robots for Localizing 3D Moving Objects <i>Zhigang Zhu, K. Deepak Rajasekar, Edward M. Riseman, Allen R. Hanson</i>	SUMMARY	PDF	BUY ARTICLE
p. 37 • Robust Localization Using Eigenspace of Spinning-Images <i>Matjaz Jogan, Ales Leonardis</i>		PDF	BUY ARTICLE
Session: Visualization	Free	Requires Subscription	Purchase
p. 47 • Acquiring and Rendering High-Resolution Spherical Mosaics <i>Adam Kropp, Neel Master, Seth Teller</i>	SUMMARY	PDF	BUY ARTICLE
p. 54 • Automatic Disparity Control in Stereo Panoramas (OmniStereo) <i>Yael Pritch, Moshe Ben-Ezra, Shmuel Peleg</i>	SUMMARY	PDF	BUY ARTICLE
p. 62 • Construction of an Immersive Mixed Environment Using an Omnidirectional Stereo Image Sensor <i>Jun Shimamura, Naokazu Yokoya, Haruo Takemura, Kazumasa Yamazawa</i>	SUMMARY	PDF	BUY ARTICLE
p. 70 • Panoramic Image Archives for As-Built			

Modeling of Complex Industrial Assets <i>David Chapman, Andrew Deacon</i>	 SUMMARY	 PDF	 BUY ARTICLE
Session: Catadioptric Designs	Free	Requires Subscription	Purchase
p. 79 • Omnidirectional Cameras with Curved Surface Mirrors <i>Alfred M. Bruckstein, Thomas J. Richardson</i>	 SUMMARY	 PDF	 BUY ARTICLE
p. 85 • Approximating a Single Viewpoint in Panoramic Imaging Devices <i>Steven Derrien, Kurt Konolige</i>	 SUMMARY	 PDF	 BUY ARTICLE
p. 91 • Equivalence of Catadioptric Projections and Mappings of the Sphere <i>Christopher Geyer, Kostas Daniilidis</i>	 SUMMARY	 PDF	 BUY ARTICLE
p. 97 • Catadioptric Sensors that Approximate Wide-Angle Perspective Projections <i>R. Andrew Hicks, Ruzena Bajcsy</i>	 SUMMARY	 PDF	 BUY ARTICLE
p. 104 • A Complete Panoramic Vision System, Incorporating Imaging, Ranging, and Three Dimensional Navigation <i>J.S. Chahl, M.V. Srinivasan</i>	 SUMMARY	 PDF	 BUY ARTICLE
p. 112 • A New Catadioptric Sensor for the Panoramic Vision of Mobile Robots <i>R. Benosman, E. Deforas, J. Devars</i>	 SUMMARY	 PDF	 BUY ARTICLE
Session: Reconstruction II	Free	Requires Subscription	Purchase
p. 119 • A Method for 3D Reconstruction of Piecewise Planar Objects from Single Panoramic Images <i>Peter Sturm</i>		 PDF	 BUY ARTICLE
p. 127 • Omni-Directional Structure from Motion <i>Peng Chang, Martial Hebert</i>	 SUMMARY	 PDF	 BUY ARTICLE
p. 134 • Complete Calibration of a Multi-camera Network <i>Patrick Baker, Yiannis Aloimonos</i>	 SUMMARY	 PDF	 BUY ARTICLE
Session: Surveillance and Navigation II	Free	Requires Subscription	Purchase
p. 145 • Experimental Results got with the Omnidirectional Vision Sensor: Syclop <i>Eric Brassart, Laurent Delahocque, Cyril Cauchois, Cyril Drocourt, Claude Pegard, El Mustapha Mouaddib</i>	 SUMMARY	 PDF	 BUY ARTICLE
p. 153 • Real-Time Target Localization and Tracking by N-Ocular Stereo <i>Takushi Sogo, Hiroshi Ishiguro, Mohan M. Trivedi</i>	 SUMMARY	 PDF	 BUY ARTICLE
p. 161 • Large Motion Estimation for Omnidirectional Vision	 SUMMARY	 PDF	 BUY ARTICLE

J.W. Lee, S. You, U. Neumann

**p. 169 • Segmentation, Tracking and
Interpretation Using Panoramic Video**
Mircea Nicolescu, Gerard Medioni, Mi-Suen Lee



PDF



p. 175 • Index of Authors



The full text of omnivis is available to members of the IEEE Computer Society
who have an [online subscription](#) and an [web account](#).

This site and all contents (unless otherwise noted) are Copyright ©2002 ,
Institute of Electrical and Electronics Engineers, Inc. All rights reserved

Welcome to IEEE Xplore®

- Home
- What Can I Access?
- Log-out

Tables of Contents

- Journals & Magazines
- Conference Proceedings
- Standards

Search

- By Author
- Basic
- Advanced

Member Services

- Join IEEE
- Establish IEEE Web Account
- Access the IEEE Member Digital Library

Your search matched **3** documents.

A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

Results Key:

JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

1 Omnistereo: panoramic stereo imaging

Peleg, S.; Ben-Ezra, M.; Pritch, Y.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 23 , Issue: 3 , March 2001
Pages:279 - 290

[\[Abstract\]](#) [\[PDF Full-Text \(2980KB\)\]](#) **IEEE JNL**

2 Cameras for stereo panoramic imaging

Peleg, S.; Pritch, Y.; Ben-Ezra, M.;
Computer Vision and Pattern Recognition, 2000. Proceedings. IEEE Conference , Volume: 1 , 13-15 June 2000
Pages:208 - 214 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(524KB\)\]](#) **IEEE CNF**

3 Automatic disparity control in stereo panoramas (Omnistereo)

Pritch, Y.; Ben-Ezra, M.; Peleg, S.;
Omnidirectional Vision, 2000. Proceedings. IEEE Workshop on , 12 June 2000
Pages:54 - 61

[\[Abstract\]](#) [\[PDF Full-Text \(1128KB\)\]](#) **IEEE CNF**